I claim:

1.   A method of providing calibration data to a printer comprising the steps of:

    printing a set of color patches from a predetermined set of input values;

    measuring color values of said color patches;

    generating calibration data including color values; and

    storing, in a memory embedded on an ink cartridge, said color values and the associated said predetermined input values.

2.   The method of claim 1 wherein printing said color patches are printed on a selected printer with a specific batch of ink.

3.   The method of claim 1 further including printing said color patches on a plurality of print substrates and storing color calibration data for each of the plurality of print substrates.

4.   The method of claim 1 wherein measuring said color values, such as tristimulus values, are measured with a spectrophotometer.

5.   The method of claim 1 wherein measuring said color values, such as tristimulus values, are measured with a colorimeter.

6.   The method of claim 1 wherein printing said set of color patches is from a predetermined set of color inks.

7.   The method of claim 1 wherein generating said color calibration data comprises the step of determining a color adjustment look-up table with the difference value between said predetermined input values and said measured color values.

8.   The method of claim 7 wherein determining said color adjustment look-up table is stored on said memory.

9.   A method of reading color calibration data on a printer comprising the steps of:

reading color values stored on a memory of an ink cartridge; and

computing a color adjustment look-up table for specific ink cartridge and ink based on said color values.

10.   The method according to claim 9 wherein computing said color adjustment look-up table determines the difference between a inputted color value in said printer and said stored color values.

11.   A method of printing color data that has been calibrated from a select printer comprising the steps of:

selecting a print substrate;

reading calibration data stored on a memory of an ink cartridge for said selected print substrate;

computing a color adjustment look-up table based on said calibration data; and

calibrating by printing an adjusted color value that reflects an output color value equal to an input color value.

12.   A method of printing color data that has been calibrated from a select printer comprising the steps of:

selecting a print substrate;

reading calibration data stored on a memory of an ink cartridge for said selected print substrate; and

calibrating by printing an adjusted color value that reflects an output color value equal to an input color value.

13.   A device for calibrating a printer comprising of:

an ink cartridge; and

a memory embedded on said ink cartridge with stored color values.